Secretariat: NEMA
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MINUTES

HYBRID IN-PERSON/VIRTUAL MEETING OF
DICOM STANDARDS COMMITTEE (DSC)

Logistics:	**December 4, 2025;** 9:00am - 4:00pm Central Standard Time RSNA, McCormick Place, 2301 S. King Dr., Chicago, IL 60616 Room: N136 (North Building)
Presiding Officers:	Annalisa Trianni, EFOMP/ESR, DSC User Co-Chair Fred Behlen, Laitek, DSC Producer Co-Chair
Secretariat:	Shayna Knazik (NEMA)

1. **Administrative Items**
   - The meeting was called to order at 9:02am Central and a quorum was present.
   - Participants were reminded of the Guidelines for Conducting NEMA Meetings and DICOM Patent Disclosure Policy.
   - The agenda was reviewed.
   - The previous meeting minutes from September 23, 2025 were reviewed and approved.

2. **DICOM Standard Committee Membership Applications**
   - None at this time

3. **New WG Membership Applications**
   - None at this time

4. **New Work Item Proposals (NWIP)**
   - **Cryptography Agility Upgrade for DICOM Digital Signature and Media Storage Security**
     - Essien Ge and Alexander Zhang presented a NWIP on behalf of WG-14 Security to modernize DICOM Digital Signature and Media Storage Security to replace legacy algorithms and add support for current cryptographic technologies so manufacturers can meet rising global security and privacy regulatory requirements.
     - ***MOTION:*** Lawrence Tarbox made a motion to approve this New Work Item Proposal. Björn Nolte seconded the motion, and it was approved with no objections or

abstentions. This was assigned the **Work Item number 2025-12-A.**

- **Enabling Live Streaming in DICOMweb**
  - Jeroen Medema presented a NWIP on behalf of WG-27 to add interoperable live streaming capabilities to DICOMweb so that newly generated image frames can be delivered in real time as SOP Class Instances for low latency clinical use without requiring persistent storage.
  - ***MOTION:*** David Clunie made a motion to approve this New Work Item Proposal amended as discussed. Lawrence Tarbox seconded the motion, and it was approved with no objections and one abstention Kevin O'Donnell. This was assigned the **Work Item number 2025-12-B**.

- **Streaming**
  - Jeroen Medema presented a second NWIP on behalf of WG-27 on streaming in medical imaging that outlines broad requirements and potential technical approaches. Jeroen noted that many needs may extend beyond DICOMweb and requested DSC guidance on which elements should be prioritized. The DICOMweb streaming NWIP proposes specific, targeted extensions to enable real-time delivery of new frames within the existing DICOMweb framework, while this broader Streaming NWIP defines the full set of requirements for streaming in medical imaging without limiting the solution to DICOMweb and anticipates that additional specifications beyond DICOMweb will be necessary.
  - David Clunie noted that there would be value for a new working group to identify the scope and create a work plan on this broad topic, since it extends beyond WG-27's scope.
  - **Action:** Shayna will add "formation of a new Working Group on Streaming" to the next agenda and will locate a New Work Group proposal form.

5. Stakeholder Reports

- CIMICS: Bryan Fan shared a brief update on CIMICS activities, including DICOM Conformance Verification and Certification Evaluation as well as the planned 2026 DSC meeting in Shenzhen, China at the Shenzhen Institute for Advanced Study in September or October 2026.
  - **Action:** Shayna will work offline with CIMICS to identify potential date ranges.

- JAHIS/JIRA/JSRT
  - Shinichi Nakano presented updates from JIRA activities. Kiyoko Tateishi presented updates on JAHIS activities. Hiroshi Sakamoto and Minoru Kawamata presented updates on JSRT activities. The full report can be accessed on the FTP. Yasunari Shiokawa shared updates from the IHE-Japan Connectathon in October 20-24, 2025.

- National Cancer Center Hospital East (Japan)
  - Hideki Yaku shared a report on new development of a quality assurance structure report for acceptance and constancy testing. The group recommended that WG-28 be brought into the loop.

- **Action:** Annalisa Trianni will bring this to WG-28 for consideration.

- ADA
  - ADA reported that WG-22 will hold a hybrid meeting on February 17, 2026, in Chicago in conjunction with the ADA Standards meeting during the Midwinter Dental Conference, and encouraged participation from vendors, industry partners, and dental stakeholders interested in dental imaging standards. For registration and agenda information, contact Dr. Aarthi Shanmugavel at shanmugavela@ada.org.

- IHE SHARAZONE
  - Steve Nichols and Bruno Laffin provided an overview of the IHE Sharazone initiative, which will become a standing Stakeholder Report agenda item. The full report is located on the FTP. IHE Sharazone is an initiative that provides a shared, cloud-based environment for testing interoperability, enabling vendors and organizations to evaluate implementations of IHE profiles and related standards in a consistent, collaborative setting.
  - Steve asked the group if there was a preferred operating mechanism for packaging samples. The group recommended to work with the Working Groups of the Supplement authors, but some CP items may need to go to WG-06.

- SIIM
  - Barry Chovitz and Cheryl Carey provided a demo of SIIM's new Virtual Hospital SIIMulator, an online sandbox for learning DICOM, HL7, and FHIR. More details can be found here: https://siim.org/virtual-hospital-siimulator/.

6. Secretariat Updates

Hae Choe provided the Secretariat update on behalf of NEMA.

- **IEC SC 62A, 62B, SC 62C, TC 62**
  - Hae shared that DICOM is listed as liaisons to these groups but this appears to be outdated because the liaisons listed are not active DICOM members. NEMA would like to update this for consistency and proposed the following:
    1. Update SC 62B and SC 62C incoming liaison to NEMA/DICOM General Secretary Shayna Knazik as these groups directly deal with imaging and radiotherapy equipment.
    2. Update TC 62 and SC 62A incoming liaison to NEMA/Emily Hoefer, Senior Project Manager of Medical Imaging. These two deal with horizontal topics such as AI and would be a good way to ensure that DICOM's AI work is connected since she is the staff person for WG-23.
    3. Serving as liaison would mean that an annual report may be provided for input and DICOM will be able to send in comments, if any, regarding IEC TC 62 and subcommittee activities. Having DICOM staff serve in these roles would facilitate information gathering and distribution for DICOM members.
  - Kevin noted that these groups are most closely related to WG-28. David suggested that distribution of DICOM-related information (such as roadmaps and ballots) to all Working Group chairs versus a specific Working Group would be beneficial. He added

that this approach provides access to their documents, which Hae confirmed can be circulated within each Working Group. The group agreed with NEMA's proposals, and Shayna will contact IEC to implement the necessary changes.

- **2025 dues report, 2026 budget, and 2026 dues process**
  - Hae shared the 2026 proposed budget and dues, noting that there are no changes from the 2025 dues structure. The consultation process for the 2026 dues has been completed, and DSC has reached consensus.
  - **Action:** Shayna will put this report on the FTP.

- **Potential new membership categories e.g. free membership category for open source organizations**
  - WG-29 and the Executive Committee discussed the potential benefit of creating a free membership category for open source organizations such as Orthanc, noting that their participation would be valuable. The group considered next steps for outreach, with WG-29 tasked to explore this further. David Clunie raised concerns that this model could be prone to abuse and noted that there are currently no barriers for such organizations to participate or contribute as Observers.
  - **Action:** WG-29 will include add an agenda item to their next teleconference to develop a plan for outreach to open source organizations, focusing on what would make participation easier regardless of DICOM membership.

- **Updates to the DICOM Policies and Procedures**
  - Hae noted that Megan Hayes (NEMA) is preparing updates to the DICOM Policies and Procedures. The group recommended that she provide a summary or list of the proposed changes either ahead of the next DSC meeting or once it is ready.

7. **Proposed DICOM membership in IHE**
   - The group discussed the potential for DICOM to apply for SDO membership in IHE International to support coordinated participation in domain activities such as IHE Radiology. Shayna Knazik would serve as the primary contact.
   - ***MOTION:*** Larry Tarbox moved to approve the application and David Clunie seconded. The motion was approved with no abstentions or objections.
   - **Action:** Kevin O'Donnell will complete the application, circulate it to ExCom for review, then submit it.

8. **Hot Topics**
   - None at this time.

9. **DSC Co-Chair Status**
   - DSC Producer Co-Chair: Fred Behlen's first term is up on December 31, 2025; however, Fred has announced his full retirement at the end of the year. **Thank you very much, Fred!**
   - Steve Nichols was identified as the next DSC Co-Chair candidate and no other nominations were received. The letter ballot to approve Steve Nichols as the next DSC Co-Chair was issued

on October 16, 2025. The letter ballot closed on November 20, 2025, and was unanimously approved. **Congratulations Steve!**

- DSC User Co-Chair: Annalisa Trianni; second term is up on December 31, 2026. A nomination committee will be established at the spring 2026 DSC meeting.

10. Future Meeting Dates

- 2026 spring meeting will take place in Prague, kindly hosted by IHE-Europe. Potential dates
  - Early week of March 30 (linked to the European Connectathon)
  - mid-week of May 11 (linked to HL7 meeting in Netherlands)
  - **Action:** Shayna will continue working with IHE to identify a date.
- 2026 fall meeting will take place in Shenzhen, China, kindly hosted by CIMICS. Shayna will continue to work with CIMICS to identify dates and other meeting logistics.
- Potential Educational Conference in São Paolo, Brazil in conjunction with São Paolo Radiology Conference 2027 (April 30-May 3, 2027). Dr. Felipe Kitamura is helping to coordinate this effort and will attend WG-29 meetings as needed. Kevin noted that it would be great to have SIIM host another workshop in conjunction with this conference.
- Another candidate for a future DSC meeting: Saudi Arabia Ministry of Health

11. New Business

- General user call to participation (item from WG-10/29 item): WG-10 and WG-29 noticed a lack of the proper blend of users versus vendors. **Action:** Shayna to add this recruitment effort to the WG-29 agenda.

12. WG-06 Report - Björn Nolte, WG-06 Chair

- WG-06 invites vendors and organizations to maintain the collective fundamental DICOM knowledge of WG-06 core team by naming new core WG-06 members. This is the key to the quality assurance and harmonization of the Standard.
- WG-06 is starting an internal discussion on which vendors and societies to potentially approach, with the goal of ensuring expertise and collective guidance for harmonization during the development of supplements and correction proposals. By offering strategic benefits (a list of value propositions for investing staff members into the core of the standard development work), WG-06 aims to attract more core members who can contribute to the continued quality assurance and harmonization of the DICOM Standard.

13. Working Group Reports

- **WG-01 Cardiac and Vascular Information/WG-12 Ultrasound:** The groups continue to hold monthly, joint meetings with good participation. Their current activities are primarily ultrasound driven. Kevin also noted that WG-01 still has no Chairs, and WG-12 only has one Chair.

- **WG-02 Projection Radiography and Angiography/WG-28 Physics:** The groups continue to meet jointly and regularly with active participation amongst users and vendors. They will meet in Maine in October to continue preparing Sup245 RDSR for Public Comment, as well as work

on the RF protocol storage Supplement.

- **WG-03 Nuclear Medicine:** WG-28 is collaborating with EFOMP on Nuclear Medicine topics and the potential reactivation of WG-03.

- **WG-04 Compression:** The group is currently inactive.

- **WG-05 Exchange Media:** The group is currently inactive.

- **WG-07 Radiotherapy:** WG-07 continues to meet in-person and hold conference calls to address Change Proposals.

- **WG-08 Structured Reporting and Common Data Elements:** Although there is interest in this group due to an IHE activity and the TID 1500 Measurement Template, no proposals have been made to restart its efforts. The group will remain inactive unless someone steps forward to lead it.

- **WG-09 Ophthalmology:** Work centers around the Corneal Topography IOD. Harry Solomon and Flora Lum have officially retired but AAO is working to identify a new Secretary.

- **WG-10 Strategic Advisory:** The group met yesterday with active participation to discuss potential use cases and New Work Item Proposals related to DICOM 4 motivators raised over the past year. The first area under investigation is the ImagingStudy Object in collaboration with WG-27 Co-Chair Bill Wallace, focusing on C-FIND metadata, partial retrieves, and related issues. An Instance Registry Service is also being explored. While no conclusions have been reached, the group will continue to develop these topics during monthly calls beginning in October 2025. Regarding ISO 12052 (the ISO version of Part 1 of DICOM, which references all other parts of the Standard), an ISO number is provided without requiring balloting for each new release. This arrangement has been in place since 2004 and is renewed every five years. Although the ISO version sees few downloads due to the DICOM Standard being freely accessible, the administrative impact on ISO is minimal. The most recent ballot received no negative votes but included editorial comments on formatting, which Kevin O'Donnell is addressing. The revised edition is expected to be re-published by the end of the year.

- **WG-11 Display Function Standard:** The group remains dormant.

- **WG-13 Visible Light:** The group remains dormant.

- **WG-14 Security:** The group meets monthly with good participation and is primarily monitoring CPs. There is currently a Letter Ballot circulating in WG-14 for the next WG-14 Co-Chair, replacing Rob Horn who is taking a step back in his retirement. Thank you for your years of leadership, Rob!

- **WG-15 Mammography and CAD:** The group remains dormant but continues to monitor CPs.

- **WG-16 Magnetic Resonance:** The group remains inactive. Steve was contacted by Mayo Clinic regarding CP-1992 and how to track and record safety information for implant devices.

- **WG-17 3D:** The group has opted to meet 1-2 times per year until there is some clear direction on which 3D file formats (like AMF, 3MF, etc.) are being adopted, then new work items will be considered to incorporate them into the Standard.

- **WG-18 Clinical Trials and Research:** No new activity but CPs are being addressed through WG-06.

- **WG-19 Dermatology:** The group is very active with great participation and is currently working on whole-body photography and 3D use cases.

- **WG-20 Integration of Imaging and Information Systems:**
    - The group meets very regularly mostly focusing on FHIR and FHIR resources. R6 is going through re-balloting process now. R6 is expected to be released late 2026, which will be a huge milestone for FHIR. ImagingStudy and ImagingSelection are the two key Imaging Resources in this Release.
    - The other issues regarding Secretariat support and ability for WG-20 members to attend meetings remotely are being handled through a revision of the SOU.
    - **Action:** Shayna will resend Brian the suggested revision to the HL7 SOU.

- **WG-21 Computed Tomography:** Monthly meetings are well attended by regular members. Additional calls have been organized to address MECT topics. The group is currently focused on CPs and Supplement 252 regarding For Processing CT SOP Classes, which is now open for Public Comment until December 24, 2025.

- **WG-22 Dentistry:** Trishul Allareddy and Aarthi Shanmugavel reported that DICOM WG-22 will hold a hybrid meeting on February 17, 2026, in Chicago in conjunction with the ADA Standards meeting during the Midwinter Dental Conference, and encouraged participation from vendors, industry partners, and dental stakeholders interested in dental imaging standards.

- **WG-23 Artificial Intelligence/Application Hosting:** Meets monthly with good attendance. Supplement 224 was withdrawn, replaced by Supplement 251 Application Request.

- **WG-24 DICOM in Surgery:** The group is not totally dormant but also not very active. They are looking at real-time video applications in surgery, as well as AI workflows and how that would apply to surgery. There is a growing collaboration between WG-23 and WG-24.

- **WG-25 Veterinary Medicine:** Not currently active.

- **WG-26 Pathology:** David Clunie serves as liaison for this group, which recently held a virtual Connectathon featuring 30 participants. The Journal of Pathology Informatics published

letters discussing the pros and cons of DICOM in digital pathology, but adoption is increasing, with Mayo Clinic digitizing millions of slides using DICOM WSI. Work continues on multi-spectral fluorescence, Z-stacks, annotations, and encoding complex cellular structures, likely leading to new SOP classes or simple extensions. Another Connectathon is planned for 2026.

- **WG-27 Web Services for DICOM:** Supplement 248: DICOMweb Send is being prepared for Public Comment and centers on the integration of C-MOVE functionality. The group is further considering the possibility of revisiting Supplement 211 regarding application/zip.

- **WG-29 Education, Communication, and Outreach:** The group maintains regular meetings and is actively preparing for the 2027 Education Conference. Participation remains robust, with numerous DSC attendees contributing. Agenda topics include revisions to the DICOM history page and updates to the English-language DICOM Wikipedia page (enhancements to pages in other languages are on hold pending completion of the English version). WG-29 is also collaborating with prospective hosts for the upcoming DICOM Educational Conference. Kevin O'Donnell is engaged in discussions with representatives in Brazil regarding a potential event in spring 2027, with additional venues under consideration.

- **WG-30: Small Animal Imaging:** The group remains dormant.

- **WG-31 Conformance:** The group remains dormant, with occasional meetings held to address CPs.

- **WG-32 Neurophysiology Data:** The group meets regularly with good participation. Most work is focusing CPs.

- **WG-33 Data Archive and Management:** The group remains dormant this year.

- **WG-34 Photoacoustic:** WG-34 Photoacoustic is on pause while the industry partners continue to work on clinical integration of the new modality.

14. Adjournment

- The meeting was adjourned early at 2:30pm Central.

Voting and Alternate Voting Members Present	
Company/ Organization	**Represented by**
AAPM	Walter Bosch
ACR	Brian Bialecki

AAPM & UAMS	Lawrence Tarbox
ADA	Trishul Allareddy
ADA	Aarthi Shanmugavel (Alt. Voting)
AdvaMed	Carolyn Hull
Agfa HealthCare	Bruno Laffin
Canon Medical	Kevin O'Donnell
Carl Zeiss Meditec	Alagappan Arumugam
CIMICS	Bryan Fan (Alt. Voting)
Cincinnati Children's Hospital	Stephen Clark
Deutsche Röntgengesellschaft	Elmar Kotter
DICOM Usergroup Austria	Silvia Winkler
EFOMP/ESR	Annalisa Trianni
ESR	Peter Mildenberger
GE HealthCare	Steve Nichols
Hologic	Janet Keyes
JAHIS	Kiyoko Tateishi
JIRA/Canon Medical	Shinichi Nakano
JIRA	Akihiro Yomoda (Alt. Voting)
JSRT	Minoru Kawamata (Alt. Voting)
JSRT	Hiroshi Sakamoto

JSRT	Takumi Tanikawa (Alt. Voting)
Laitek	Fred Behlen
NEMA	Hae Choe (Alt. Voting)
NEMA	Shayna Knazik
Philips	Jeroen Medema
PixelMed Publishing	David Clunie
Sectra Imaging	Krister Valtonen
Siemens Healthineers	Björn Nolte
SIIM	Cheryl Carey
VISUS Health IT GmbH	Marc Kämmerer

Voting Members Absent
(* Asterisk = Not present at two consecutive meetings and therefore not counted for quorum during this meeting)

Company/ Organization	**Represented by**
*AAPM	Nick Bevins
*Accuray	Bob Pekarek
*American Academy of Oral and Maxillofacial Radiology (AAOMR)	Allan Farman
*American Association of Orthodontists	Kirt Simmons
*Brainlab SE	Christof Schadt
*Brazilian College of Radiology	Alexandra Monteiro
*Canada Health Infoway	Linda Monico

*CAP	Kevin Schap
*Center for Medical Device Standardization Administration	Jia Zheng
CIMICS	Jianming Qu
*Deutsche Ophthalmologische Gesellschaft	Nicole Eter
*Dolby Laboratories	Brian Lee
Elekta	Adam Zhu
*FDA	Daniel Krainak
*IBA	David Wikler
*Korean PACS Standards Committee	Hee-Joung Kim
*Leica Biosystems	Jean Desire
*MedicalCommunications	Wolfgang Schultz
*Medical Image Standards Association of Taiwan	Chung-Yueh Lien
*National Health Service	Craig Sayers
*RSNA	Chris Carr
*Varian	Kari Jyrkkälä
*Web3D Consortium	Nicholas Polys
Observers Present	
Company/ Organization	**Represented by**
ADA	Rebecca Fiehn

EFOMP	Alberto Torresin
IHE-Japan	Ryosuke Murakawa
IHE-Japan	Hideki Yaku
JAHIS	Yasunari (Salt) Shiokawa
Medical University of South Carolina	Jonathan Halford
NEMA	Emily Hoefer
PDRadiopharma/IHE-Japan	Yaku Hideki
PDRadiopharma	Ryosuke Murakawa
Philips	Sybo Dijkstra
Philips	Essien Ge
Philips	Alexander Zhang
Raster Images	Suresh Viswanathan
Seno Medical	Allison Bertrand
Seno Medical	Bryan Clingman
Siemens Healthineers	Peter Chripunow
SIIM	Barry Chovitz
Svasthiya Technologies	Kousik Ramasubramaniam

Prepared and submitted by Shayna Knazik
Reviewed by Matt Haynie